Approved Fer Release 2002/06/14:: CIA-RDP71B00465A000100060115-0

OEL 1146-64

23 November 1964

MEMORANDUM FOR THE RECORD				
SUBJEC	CT :	Special Equipment		
schedul	collec e for l	t may be desirable to employ the technique in a stion requirement aimed at determining the operating FAN SONG radars. In order to develop a preliminary in items of information are desired.	25X1A 25X1A	
ment; te	2. chnica	are in charge of this developal support will be provided by of GSD.	25X1A	
are useo presentl	d to in	n the following check list both questions and statements dicate information required and understandings which are ng used in preliminary design work.		
I.	Oper	ational Considerations and Physical Characteristics		
	Α.	Allowable weight and size of the equipment; maximum and desirable?		
	В.	Degree of concealment required in the packaging? It is assumed that equipment may be used on safe-houses or may be left in the field.		
	C.	How close can the equipment be emplaced to the target radar?	25X1A	
	D.	How accurately can the equipment be emplaced? In particular, how accurately can the antenna of the equipment be pointed towards the target radar?	25X1A	

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	E. The equipment will be operable with batteries or from commercial ac sources.		
	F. How many units will be required for emplacement, for spares, for turn around, etc?		
	G. How long will the equipment be required to operate unattended? How often will servicing to replace batteries or other parts be available?	25X1A	
II.	Data Requirements		
		25X1D	
III.	Design Considerations		
	It is presently assumed that the equipment will be designed in a modular fashion so that it may be employed in a number of different configurations. The complexity of the equipment and the attendant reliability will be considerably effected by the techniques employed. In retriev-		
25X1A	ing the data from the equipment, these degrees of complexity depend primarily on the logic and memory portions of the equipment and in the method of sending the information back to the collection point. Determination of the technique used must necessarily reflect a number of factors. Areas of consideration are suggested below:		

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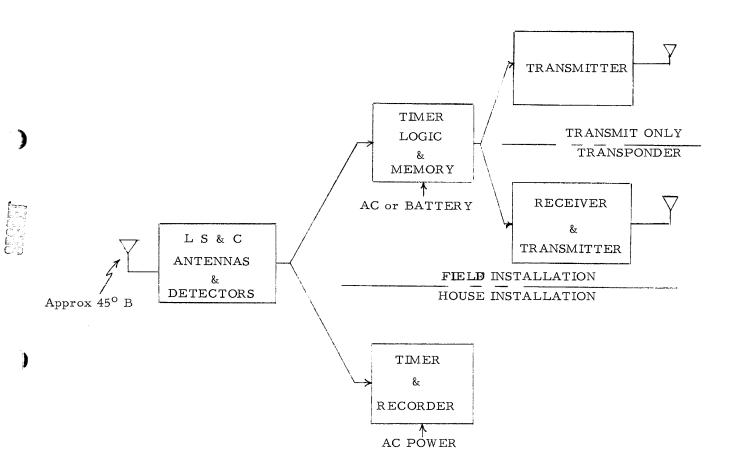
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		Page Three	
A.		vable frequency for interrogation and	25X1A
		onse by the equipment; allowable	25/(1/4
	powe:	r, and allowable transmission period.	
В.	Desi	ed data readout or transmission scheme.	
	1.	transmits whenever radar	25X1A
	1.	or guidance signal is turned on or	
		off.	
		011,	05)/4.4
	2. sends a warning transmission when the radar signal or guidance signal		25X1A
		is turned off. In this case requests	25X1A
		interrogation for read out.	
	3.	Accumulate for 24 hours or some other	
		suitable period and read out and reset on	
		command.	
	4.	Accumulate as in 3 above but read out on	
		achedule. Note that 1 and 2 eliminate the	
		requirement for a receiver as part of the	
		equipment.	
			25X1A
C.	Ident	rification of individual equipment required.	
	1. S	since all equipments will include a timer,	
		the equipment can be programmed to read	
		out on a particular schedule and the	
		transmitting equipment being identified	
		by its schedule.	
	2.	Identification can be accomplished	
		through frequency selection.	
	3.	If a transponder is used, an interro-	
		gation code can be used to select the	
		particular equipment from which read	
		out is desired.	
г.	ኤ <i>ለ</i> ⊏ .™	ular design alternatives are indicated in the 🔨 🛆	
D.		ched block diagram.	
	alid	Cited brock drag air.	

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Attachment

25X1A

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25X1A